

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-14 (canceled)

Claim 15 (withdrawn): In an induction heating coil for an induction heating type fixing device, leads of a plurality of coils are laid inside of said plurality of coils.

Claim 16 (withdrawn): The induction heating coil as claimed in claim 15, wherein said coils are wound round a bobbin formed of a nonconductive material, said leads being laid inside of said bobbin.

Claim 17 (withdrawn): The induction heating coil as claimed in claim 16, wherein holes are formed in said bobbin for leading said leads into said bobbin.

Claim 18 (withdrawn): The induction heating coil as claimed in claim 15, wherein said coils are wound round a bobbin formed of a nonconductive material, and grooves are formed in an outer periphery of said bobbin for laying said leads inside of said coils.

Claim 19 (currently amended): [[In an]] An induction heating coil for an induction heating type fixing device ~~that includes~~ including a heat roller, comprising:

~~a plurality of coils are wound round~~ main coil having two leads positioned inside said heat roller, and at least at a center portion substantially corresponding to a main sheet passing range;

a first auxiliary coil having two leads positioned inside said heat roller at a first portion other than the center portion, said first portion being located on a first side of the center portion and substantially corresponding to an auxiliary sheet passing range; and

a second auxiliary coil having two leads positioned inside said heat roller at a second portion other than the center portion, said second portion being located on a second side of the center portion opposite the first side and substantially corresponding to said auxiliary sheet passing range,

wherein one of said ~~plurality of coils is connected to another coil~~ two leads of said first auxiliary coil and one of said two leads of said second auxiliary coil are interconnected over an immediately adjoining said main coil by a connection lead.

Claim 20 (currently amended): The induction heating coil as claimed in claim 19, wherein said ~~connection lead includes~~ one of said two leads of said first auxiliary coil and said one of said two leads of said second auxiliary coil are interconnected by a removable connecting means for connecting said connection lead to another connection lead device.

Claim 21 (currently amended): ~~[[In an]]~~ An induction heating coil for an induction heating fixing device ~~that includes~~ including a heat roller, comprising:

~~a plurality of coils are wound round~~ main coil positioned inside said heat roller~~[[,~~
and]] at a center portion substantially corresponding to a main sheet passing range;

a first auxiliary coil positioned inside said heat roller at a first portion other than the center portion, said first portion being located on a first side of the center portion and substantially corresponding to an auxiliary sheet passing range; and

a second auxiliary coil positioned inside said heat roller at a second portion other than the center portion, said second portion being located on a second side of the center portion opposite the first side and substantially corresponding to said auxiliary sheet passing range,

wherein each of said plurality of coils each have main coil, first auxiliary coil, and second auxiliary coil includes two leads at least one of which comprises a flat lead, and said flat lead of said first auxiliary coil and said flat lead of said second auxiliary coil are interconnected over said main coil.

Claim 22 (currently amended): The induction heating coil as claimed in claim 21, wherein said flat lead ~~connects a coil associated therewith to another coil or~~ of said main coil is connected to a coil drive circuit over ~~an immediately adjoining coil~~ one of the first and second auxiliary coils.

Claim 23 (currently amended): The induction heating coil as claimed in claim 22, wherein said flat ~~[[lead]]~~ leads of said main coil, first auxiliary coil, and second auxiliary coil each comprises a thin, flat sheet formed of a conductive material.

Claim 24 (currently amended): The induction ~~heating~~ heating coil as claimed in claim 22, wherein said flat ~~[[lead]]~~ leads of said main coil, first auxiliary coil, and second auxiliary coil each comprises a litz wire.

Claim 25 (currently amended): The induction heating coil as claimed in claim 24, wherein each of said [[lead]] two leads of said main coil, first auxiliary coil, and second auxiliary coil has a sectional area equal to or greater than a cross-sectional area of the litz wire.

Claim 26 (currently amended): The induction heating coil as claimed in claim 25, wherein said flat [[lead]] leads of said main coil, first auxiliary coil, and second auxiliary coil each has a thickness equal to or smaller than a diameter of the litz wire.

Claims 27-29 (canceled)

Claim 30 (currently amended): The induction heating coil as claimed in claim [[27]] 26, wherein opposite ends of said main coil are coincident with or positioned slightly outward of opposite ends of said main sheet passing range of said heat roller.

Claim 31 (currently amended): The induction ~~heating~~ heating coil as claimed in claim 21, wherein said flat [[lead]] leads of said main coil, first auxiliary coil, and second auxiliary coil each comprises a litz wire.

Claim 32 (currently amended): The induction heating coil as claimed in claim 31, wherein each of said [[lead]] two leads of said main coil, first auxiliary coil, and second auxiliary coil has a sectional area equal to or greater than a cross-sectional area of the litz wire.

Claim 33 (currently amended): The induction heating coil as claimed in claim 32, wherein said flat ~~[[lead]]~~ leads of said main coil, first auxiliary coil, and second auxiliary coil each has a thickness equal to or smaller than a diameter of the litz wire.

Claims 34-36 (canceled)

Claim 37 (currently amended): The induction heating coil as claimed in claim ~~[[34]]~~ 33, wherein opposite ends of said main coil are coincident with or positioned slightly outside of opposite ends of said main sheet passing ~~range of said heat roller~~.

Claim 38 (currently amended): The induction heating coil as claimed in claim 21, wherein each of said ~~[[lead]]~~ two leads of said main coil, first auxiliary coil, and second auxiliary coil has a sectional area equal to or greater than a cross-sectional area of ~~[[the]]~~ a litz wire.

Claim 39 (canceled)

Claim 40 (currently amended): The induction heating coil as claimed in claim ~~[[39]]~~ 38, wherein said flat ~~[[lead]]~~ leads of said main coil, first auxiliary coil, and second auxiliary coil each has a thickness equal to or smaller than a diameter of the litz wire.

Claims 41-43 (canceled)

Claim 44 (currently amended): The induction heating coil as claimed in claim [[41]] 40, wherein opposite ends of said main coil are coincident with or positioned slightly outward of opposite ends of said main sheet passing range ~~of said heat roller~~.

Claims 45-50 (canceled)

Claim 51 (currently amended): The induction heating coil as claimed in claim 21, wherein said flat [[lead]] leads of said main coil, first auxiliary coil, and second auxiliary coil each has a thickness equal to or smaller than a diameter of [[the]] a litz wire.

Claims 52-54 (canceled)

Claim 55 (currently amended): The induction heating coil as claimed in claim [[52]] 51, wherein opposite ends of said main coil are coincident with or positioned slightly outward of opposite ends of said main sheet passing range ~~of said heat roller~~.

Claims 56-58 (canceled)

Claim 59 (currently amended): The induction heating coil as claimed in claim [[56]] 21, wherein opposite ends of said main coil are coincident with or positioned slightly outward of opposite ends of said main sheet passing range ~~of said heat roller~~.

Claim 60 (currently amended): [[In an]] An image forming apparatus ~~including~~ comprising:

a fixing device ~~that fixes~~ configured to fix a toner image on a recording medium
[[with]] and including a heat roller; and

an induction heating coil including,

a ~~plurality of coils are wound round~~ main coil positioned inside said heat roller[[, and]] at a center portion substantially corresponding to a main sheet passing range,

a first auxiliary coil positioned inside said heat roller at a first portion other than the center portion, said first portion being located on a first side of the center portion and substantially corresponding to an auxiliary sheet passing range, and

a second auxiliary coil positioned inside said heat roller at a second portion other than the center portion, said second portion being located on a second side of the center portion opposite the first side and substantially corresponding to said auxiliary sheet passing range,

wherein each of said ~~plurality of coils each have~~ main coil, first auxiliary coil, and second auxiliary coil includes two leads at least one of which comprises a flat lead, and said flat lead of said first auxiliary coil and said flat lead of said second auxiliary coil are interconnected over said main coil.

Claim 61 (currently amended): The apparatus as claimed in claim 60, wherein said flat lead ~~connects a coil associated therewith to another coil or~~ of said main coil is connected to a coil drive circuit over an immediately adjoining coil one of the first and second auxiliary coils.

Claim 62 (currently amended): The apparatus as claimed in claim 60, wherein said flat ~~[[lead]]~~ leads of said main coil, first auxiliary coil, and second auxiliary coil each comprises a thin, flat sheet formed of a conductive material.

Claim 63 (currently amended): The apparatus as claimed in claim 60, wherein said flat ~~[[lead]]~~ leads of said main coil, first auxiliary coil, and second auxiliary coil each comprises a litz wire.

Claim 64 (currently amended): The apparatus as claimed in claim 60, wherein each of said ~~[[lead]]~~ two leads of said main coil, first auxiliary coil, and second auxiliary coil has a sectional area equal to or greater than a cross-sectional area of ~~[[the]]~~ a litz wire.

Claim 65 (currently amended): The apparatus as claimed in claim 60, wherein said flat ~~[[lead]]~~ leads of said main coil, first auxiliary coil, and second auxiliary coil each has a thickness equal to or smaller than a diameter of ~~[[the]]~~ a litz wire.

Claim 66 (canceled)

Claim 67 (withdrawn): In an induction heating type fixing device, an induction heating coil comprises a bobbin for supporting conductors, said bobbin comprising a plurality of bobbin members removably connected to each other.

Claim 68 (withdrawn): The fixing device as claimed in claim 67, wherein said bobbin is hollow and cylindrical, and

the conductors are wound on inner peripheries of said bobbin members.

Claim 69 (withdrawn): The fixing device as claimed in claim 68, wherein the conductors are selectively wound on the inner peripheries of said bobbin members or on outer peripheries of said bobbin members.

Claim 70 (withdrawn): In an induction heating coil for an induction heating type fixing device, a bobbin for supporting conductors comprises a plurality of bobbin members removably connected to each other, and
the conductors each are wound round a particular bobbin member.

Claim 71 (withdrawn): The fixing device as claimed in claim 70, wherein said bobbin is hollow and cylindrical, and
the conductors are wound on inner peripheries of said bobbin members.

Claim 72 (withdrawn): The fixing device as claimed in claim 71, wherein the conductors are selectively wound on the inner peripheries of said bobbin members or on outer peripheries of said bobbin members.

Claim 73 (withdrawn): In a method of producing an induction heating coil for an induction heating type fixing device and including a bobbin for supporting conductors, said bobbin comprises a plurality of bobbin members removably connected to each other, after a particular conductor has been wound on each bobbin member, said plurality of bobbin members are assembled.

Claim 74 (withdrawn): The method as claimed in claim 73, wherein said bobbin is hollow and cylindrical, and
the conductors are wound on inner peripheries of said bobbin members.

Claim 75 (withdrawn): The method as claimed in claim 74, wherein the conductors are selectively wound on the inner peripheries of said bobbin members or on outer peripheries of said bobbin members.

Claim 76 (withdrawn): In an image forming apparatus including a fixing device for fixing a toner image on a recording medium with a heat roller, which includes an induction heating coil, said induction heating coil comprises a bobbin for supporting conductors, and
said bobbin comprises a plurality of bobbin members removably connected to each other.

Claim 77 (withdrawn): The apparatus as claimed in claim 76, wherein said bobbin members comprise a main bobbin member round which a conductor for serving as a main coil is wound and an auxiliary bobbin member round which a conductor for serving as an auxiliary coil is wound,

said main bobbin member is located at a position substantially corresponding to a main range of the heat roller which a recording medium having a preselected size smaller than a maximum available size passes, and

said auxiliary bobbin member is located at a position substantially corresponding to an auxiliary range of the heat roller other than said main range.

Claim 78 (withdrawn): The apparatus as claimed in claim 76, wherein said bobbin is hollow and cylindrical, and

the conductors are wound on inner peripheries of said bobbin members.

Claim 79 (withdrawn): The apparatus as claimed in claim 76, wherein the conductors are selectively wound on the inner peripheries of said bobbin members or on outer peripheries of said bobbin members.